Lean Product Development journey

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Lean Product Development (LPD) Implementation Journey

**Understand Lean & Identify Waste**
A systematic approach to identifying and eliminating waste through continuous improvement.

- Not meeting customer needs
- Long development cycle times
- Many redevelopment cycles
- High development costs
- Long production cycle times
- High production costs

Lean is about our People:
Train Trust Engage Motivate Empower

**Build Your Team (Integrated Product Team - IPT)**
- Project Manager
- Tests
- Procurement
- Engineering
- Production
- Quality
- Supplier
- Manufacturing
- System Engineer

**Work as a Team (Workshop)**
- Facilitator/Project Manager
- LPD Tools
- Workshop Outputs
- IPT

**Identify “Value to the Customer”**
- Solving customer problems
- Exploiting opportunities
- The product should look good
- The customer should feel good

**Develop Requirements**
- Identifying customer needs
- Converting to requirements
- Developing and allocating requirements
- Evaluating ways for implementing

**Reduce Requirements and Costs**

**Get Costs Requirements**

- Determined by the competitors
- Determined by the corporation
- Target for the Project Manager

**Integrate Production and Procurement**
Require a real production cost status in each gate

**Accelerate Information Flow**
Development plan Workshop
- Mapping the current development plan
- Synchronize activities and Work Packages
- Build new improved development plan

**Challenge the Design**
- Design for Manufacturing & Assembly
- Requirements Technology Assembly Reuse Standards
- Symmetry Tolerances Parts number Commonality

**Reduce Suppliers Costs**

- (1) Requirements Priorities
- (2) Costs drivers
- (4) Reduce Costs
- (3) Reduce Requirements

“What’s it in for me?”
Project Manager
- Shortening time to market
- Reducing development costs
- Reducing manufacturing costs
- Building project team spirit

“I am in full controlling of the project.”
UNDERSTAND LEAN & IDENTIFY WASTE

A systematic approach to identifying and eliminating Waste through continuous improvement

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- Long production cycle times
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Lean is about our People:

Train  Trust  Engage  Motivate  Empower
BUILD YOUR TEAM
INTEGRATED PRODUCT TEAM (IPT)

Project Manager
Tests
Procurement
Engineering
Quality
Production
Supplier
Manufacturing
System Engineer
WORK AS A TEAM (WORKSHOP)

Facilitator/Project Manager

LPD Tools

Workshop Outputs

IPT
IDENTIFY “VALUE TO THE CUSTOMER”

- Solving customer Problems
- Exploiting Opportunities
- The product should Look Good
- The Customer should Feel Good
GET COSTS REQUIREMENTS

Determined by the competitors
PRICE

Determined by the corporation
PROFIT

Target for the Project Manager
COST

PRICE - PROFIT = COST
REDUCE REQUIREMENTS AND COSTS

(QFD)

Important

Accept all

Challenge

Delete ?

Delete

Requirements

Not important

Low

Implementation Cost

High (DTC)
DEVELOP REQUIREMENTS

Identifying customer needs

Converting to requirements

Developing and allocating requirements

Evaluating ways for implementing
ACCELERATE INFORMATION FLOW
Development plan Workshop

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Synchronize activities and Work Packages

Build new improved development plan
INTEGRATE PRODUCTION AND PROCUREMENT

Require a real Production cost status in each Gate
Challenge the Design

Design for Manufacturing & Assembly

Requirements  Technology  Assembly  Reuse  Standards

Symmetry  Tolerances  Parts number  Commonality
REDUCE SUPPLIERS COSTS

(1) Requirements Priorities

(2) Costs drivers

(3) Reduce Requirements

(4) Reduce Costs
"WHAT'S IT IN FOR ME?"

PROJECT MANAGER

- Shortening Time to Market
- Reducing development cost
- Reducing manufacturing costs
- Building project team spirit

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